

# DRAFT 2019 HIGHWAY SAFETY TARGETS FOR THE NCR

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## Performance Based Planning & Programming

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Technical Committee  
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# Presentation Items

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- Review of Highway Safety Performance Measures and Target Setting Requirements for MPOs
- Review of recent trends in safety data vs. the 2018 targets
- Approach for developing staff-recommended National Capital Region Safety Targets
- Proposed 2019 National Capital Region Safety Targets
- Next Steps



# Highway Safety Performance Measures

Performance Measure	Description	Data Source
Number of Fatalities (5 year rolling average)	Total number of fatalities during a calendar year	FARS <sup>1</sup>
Rate of Fatalities per 100 million VMT (5 year rolling average)	Ratio of total fatalities to VMT	FARS and HPMS <sup>2</sup> (or MPO estimate)
Number of Serious Injuries (5 year rolling average)	Total number of serious injuries during a calendar year	State reported serious injury data <sup>3</sup>
Rate of Serious Injuries per 100 million VMT (5 year rolling average)	Ratio of total serious injuries to VMT	State reported serious injury data <sup>3</sup> and HPMS
Number of Non-Motorized Fatalities and Serious Injuries (5 year rolling average)	Total number of fatalities and serious injuries during a calendar year	FARS and State serious injury data <sup>3</sup>

<sup>1</sup> FARS: Fatality Analysis Reporting System

<sup>2</sup> HPMS: Highway Performance Monitoring System

<sup>3</sup> for the first 36 months – after that States must adopt the Model Minimum Uniform Crash Criteria (MMUCC) definition of serious injury



# Highway Safety Target Setting

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- Annual requirement for state DOTs and MPOs to set 5-year rolling average targets for the five performance measures
- State DOTs set targets for the 2015-2019 period on August 31, 2018
- TPB has 180 days to set regional targets (February 27, 2019)
- For each performance measure (PM), the MPO will either:
  - 1) Agree to plan and program projects so they contribute toward accomplishing the state DOT safety target for that PM, or
  - 2) Commit to a quantifiable target for that PM for the metropolitan planning area
- FHWA does NOT evaluate MPO targets – no regulatory consequences for MPOs that do not meet targets



# NCR Safety Trends – With Final 2017<sup>1</sup> Annual Data

Performance Measure	2013	2014	2015	2016	2017	Change from 2016 to 2017
# of Fatalities	261	263	263	275	313	↑ 13.8 %
Fatality Rate (per 100 MVMT)	0.612	0.618	0.610	0.635	0.693	↑ 9.2 %
# of Serious Injuries	3,040	2,856	2,642	2,946	2,632	↓ 10.7 %
Serious Injury Rate (per 100 MVMT)	7.078	6.666	6.112	6.749	5.826	↓ 13.7 %
# Nonmotorist Fatalities & Serious Injuries	514	549	526	565	556	↓ 1.6 %

Note <sup>1</sup>: 2017 FARS data was published in October 2018



# Summary of NCR 2013-2017 Data with 2014-2018 Targets

	2013-2017 Actual	2014-2018 Target
# of Fatalities	275.0	253.0
Fatality Rate (per 100 MVMT)	0.632	0.588
# of Serious Injuries	2,822.8	3,007.3
Serious Injury Rate (per 100 MVMT)	6.499	6.791
# Nonmotorist Fatalities & Serious Injuries	541.8	528.8

Note: numbers shown are 5-year rolling averages



# Proposed NCR Target Setting Methodology

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- MD, VA, and DC have used different approaches in developing targets
- Staff is proposing a target setting methodology that accounts for / incorporates each State's approach:
  - Apply Maryland's approach to identify a "sub-target" for the Maryland portion of the NCR
  - Apply Virginia's approach to identify a sub-target for the Virginia portion of the NCR
  - Incorporate the District of Columbia's target as a sub-target for the DC portion of the NCR
  - Combine the three sub-targets into a regional target for the NCR
  - *If a calculated target is higher than the previous target, set the target equal to the previous target*



# Forecast Using State Methodologies

	2014-2018 Target	2015-2019 Forecast*	Difference	Percent Difference
# of Fatalities	253.0	<u>260.6</u>	7.6	3.0%
Fatality Rate (per 100 MVMT)	0.588	<u>0.611</u>	0.023	3.9%
# of Serious Injuries	3,007.3	<u>2,919.6</u>	-87.7	-2.9%
Serious Injury Rate (per 100 MVMT)	6.791	<u>6.564</u>	-0.217	-3.2%
# Nonmotorist Fatalities & Serious Injuries	528.8	<u>508.6</u>	-20.2	-3.8%

\* After application of state methodologies



# Draft 2019 Highway Safety Targets for the NCR

	2014-2018 Target	2015-2019 <u>Target</u>	Difference	Percent Difference
# of Fatalities	253.0	<u>253.0*</u>	0.0	0.0%
Fatality Rate (per 100 MVMT)	0.588	<u>0.588*</u>	0.000	0.0%
# of Serious Injuries	3,007.3	<u>2,919.6</u>	-87.7	-2.9%
Serious Injury Rate (per 100 MVMT)	6.791	<u>6.564</u>	-0.217	-3.2%
# Nonmotorist Fatalities & Serious Injuries	528.8	<u>508.6</u>	-20.2	-3.8%

\* Proposed target set to the same value as 2014-2018 adopted target

# Next Steps

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- Incorporate feedback from this Committee
- Present draft 2019 highway safety targets to the board at the December 2018 TPB meeting
- Finalize highway safety targets based on board feedback
- Request board approval of highway safety targets at the January 2019 TPB meeting



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